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Technical Bulletin

Installing GX Works2 V1.48a on a Win7 64 Bit PC

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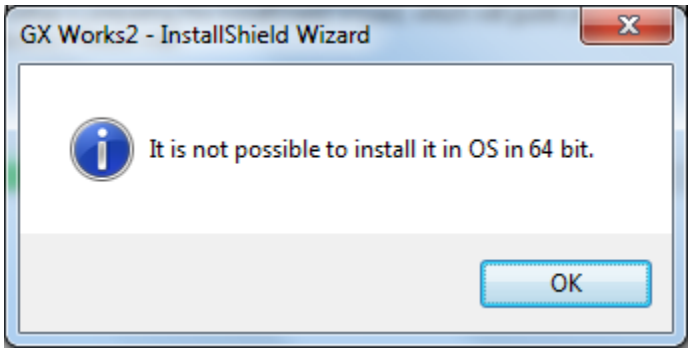
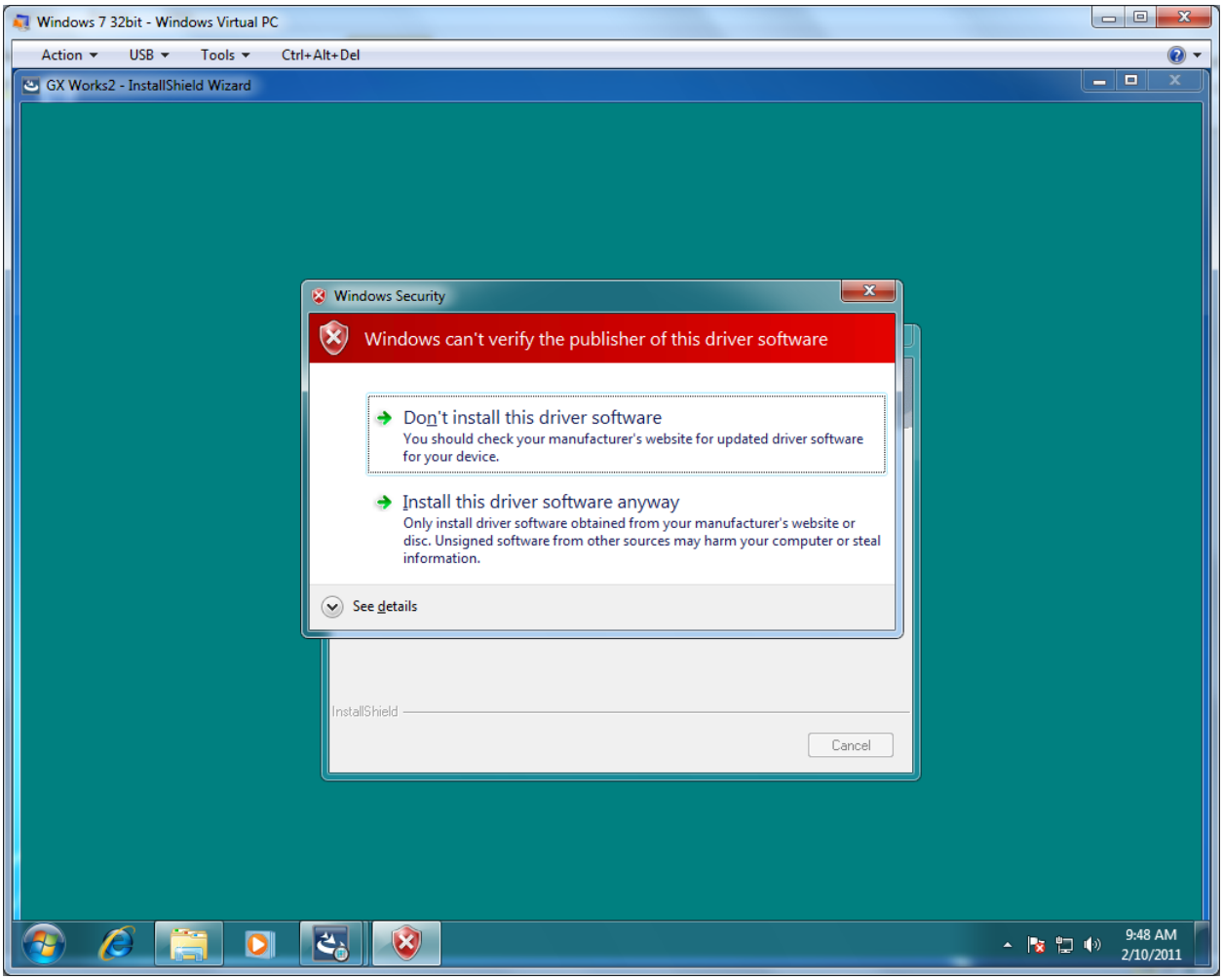
Chapter 1 - Installing GX Works2 V1.48a in Win7 64 Bit PC



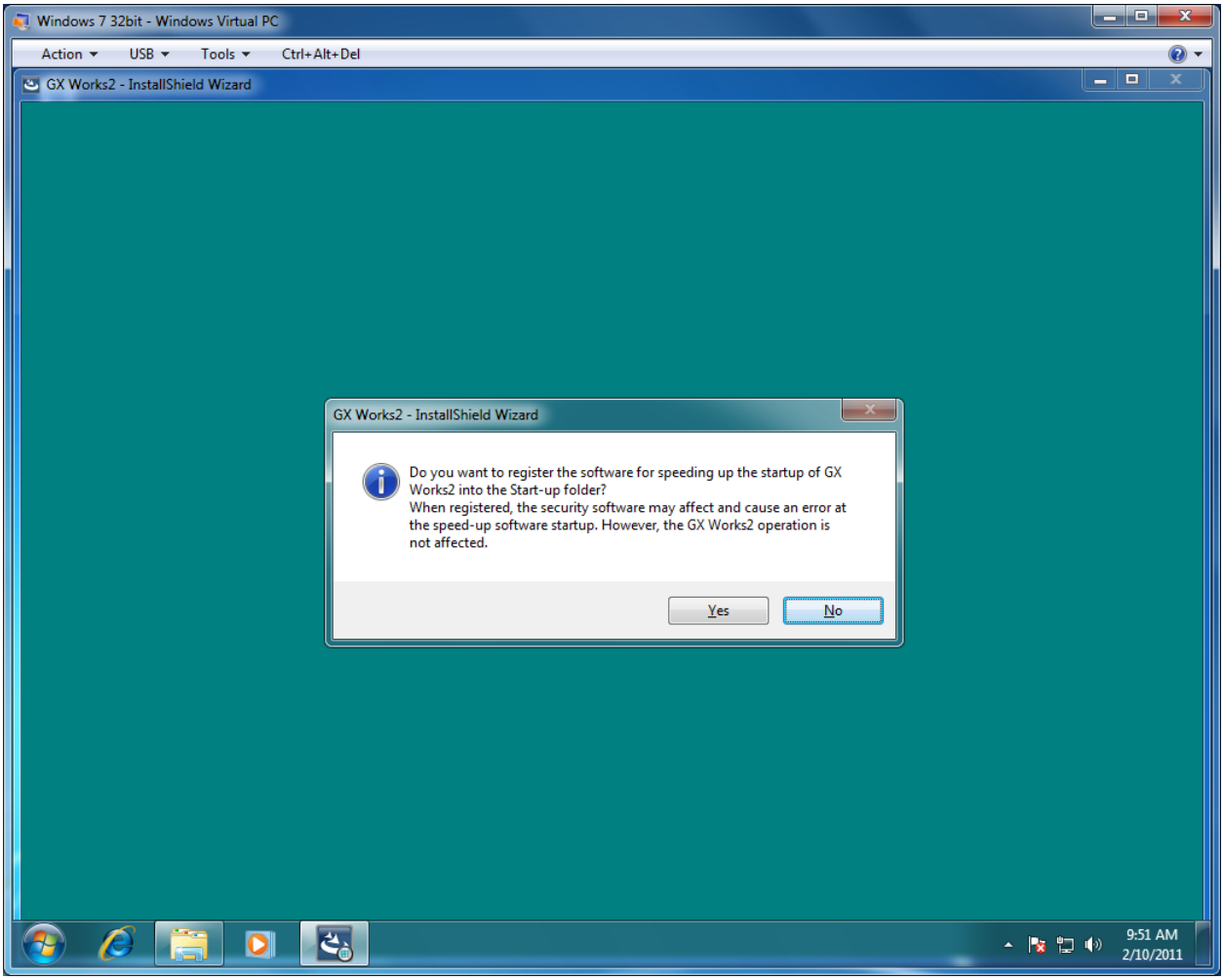
Because GX Works2 V1.48a is NOT Windows 7 64 Bit Compatible, Windows Virtual PC using Windows 7 32 Bit Mode or VMWare using a Window 7 32 bit Image can be used. See next page(s) for details.

Chapter 2 - Installing GX Works2 V1.48 in Win7 32 Bit WINDOWS VIRTUAL PC

It installs, but this warning appears when installing USB drivers. It appears twice. Select “Install this driver software anyway”.

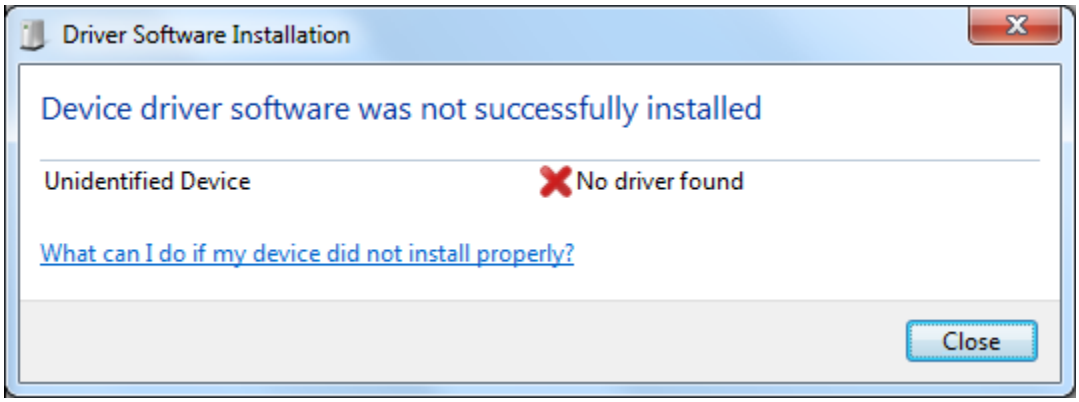

Windows 7 32bit - Windows Virtual PC
Action
USB
Tools
Ctrl+Alt+Del
GX Works2 - InstallShield Wizard
Windows Security
Windows can't verify the publisher of this driver software
Don't install this driver software
You should check your manufacturer's website for updated driver software for your device.
Install this driver software anyway
Only install driver software obtained from your manufacturer's website or disc. Unsigned software from other sources may harm your computer or steal information.
See details
InstallShield
Cancel
9:48 AM
2/10/2011

Select NO to this prompt.


Windows 7 32bit - Windows Virtual PC
Action
USB
Tools
Ctrl+Alt+Del
GX Works2 - InstallShield Wizard
GX Works2 - InstallShield Wizard
Do you want to register the software for speeding up the startup of GX Works2 into the Start-up folder?
When registered, the security software may affect and cause an error at the speed-up software startup. However, the GX Works2 operation is not affected.
Yes
No
9:51 AM
2/10/2011

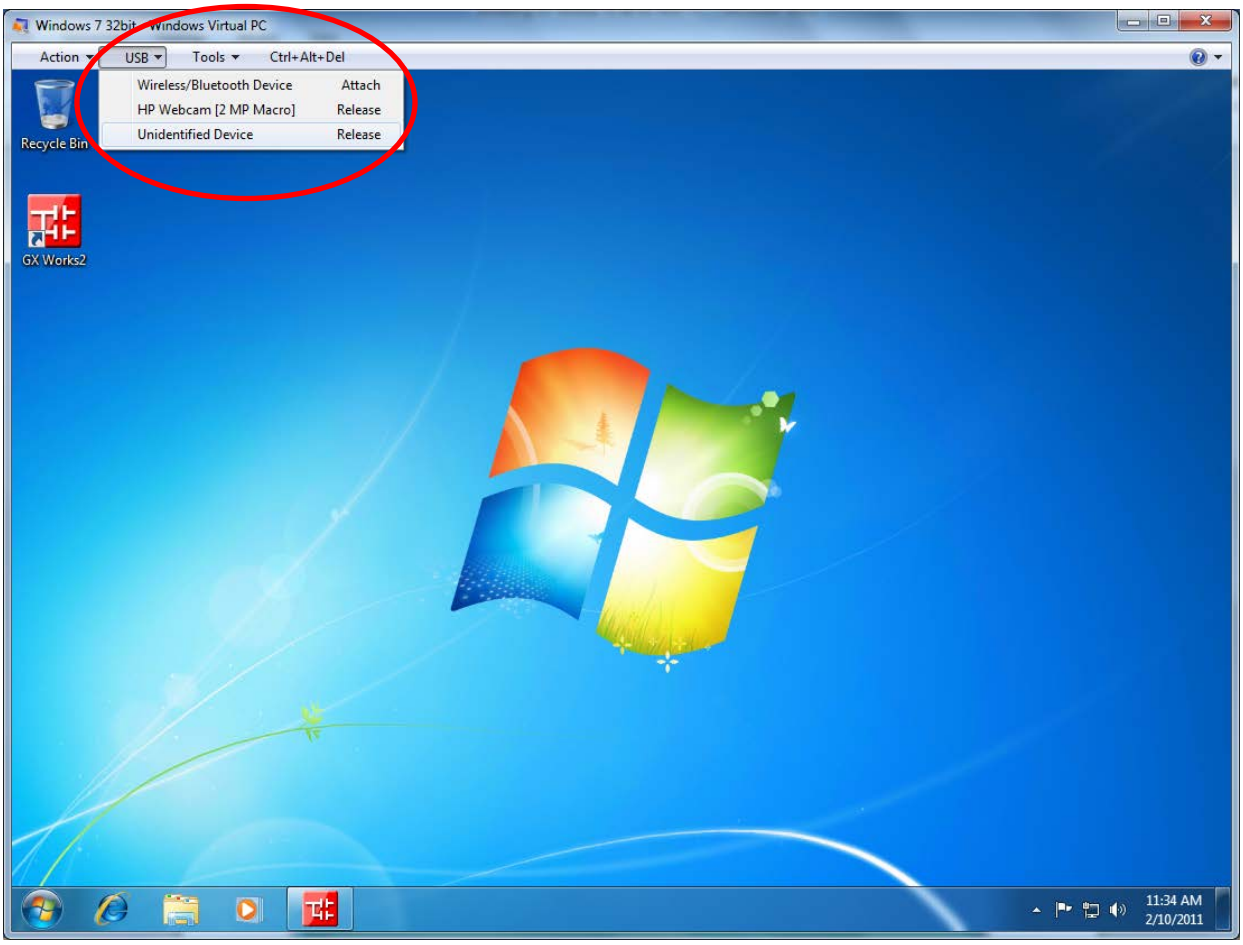
USB

USB Driver on Win7 64 side failed to install when USB cable connected to PLC CPU.


Driver Software Installation
Device driver software was not successfully installed
Unidentified Device
No driver found
What can I do if my device did not install properly?
Close

To install USB driver manually in the WINDOWS VIRTUAL PC you have to goto USB →"Unidentified Device" and select it in the WINDOWS VIRTUAL PC Titlebar.

Then follow the USB driver Installation as documented in Technical Bulleting FA-A-0091-B, pages 7 through 10. This is done thru the Computer Management → Device Manager Menus in Win 7.



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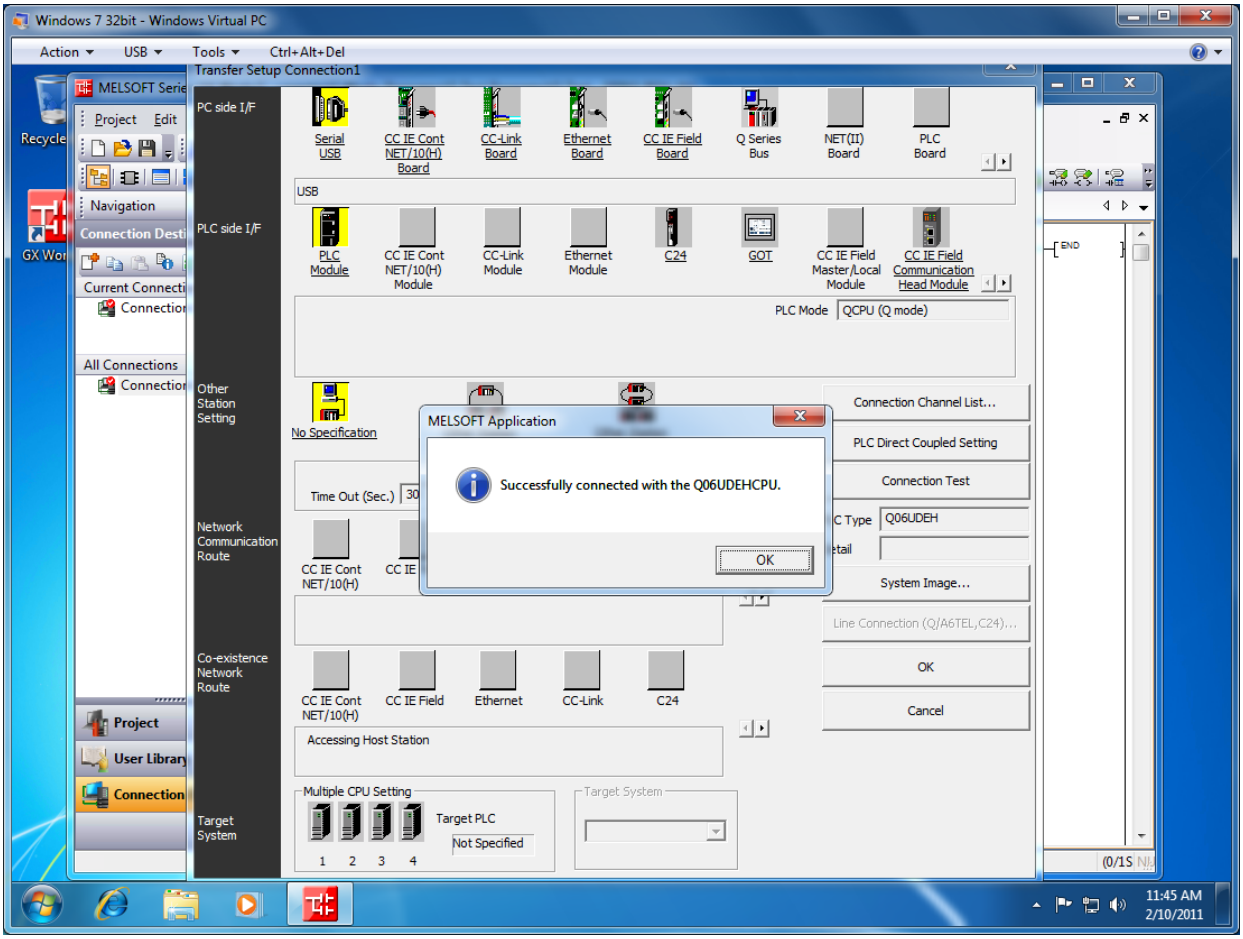
Connection Test with USB Device Attached in WINDOWS VIRTUAL PC USB Menu.



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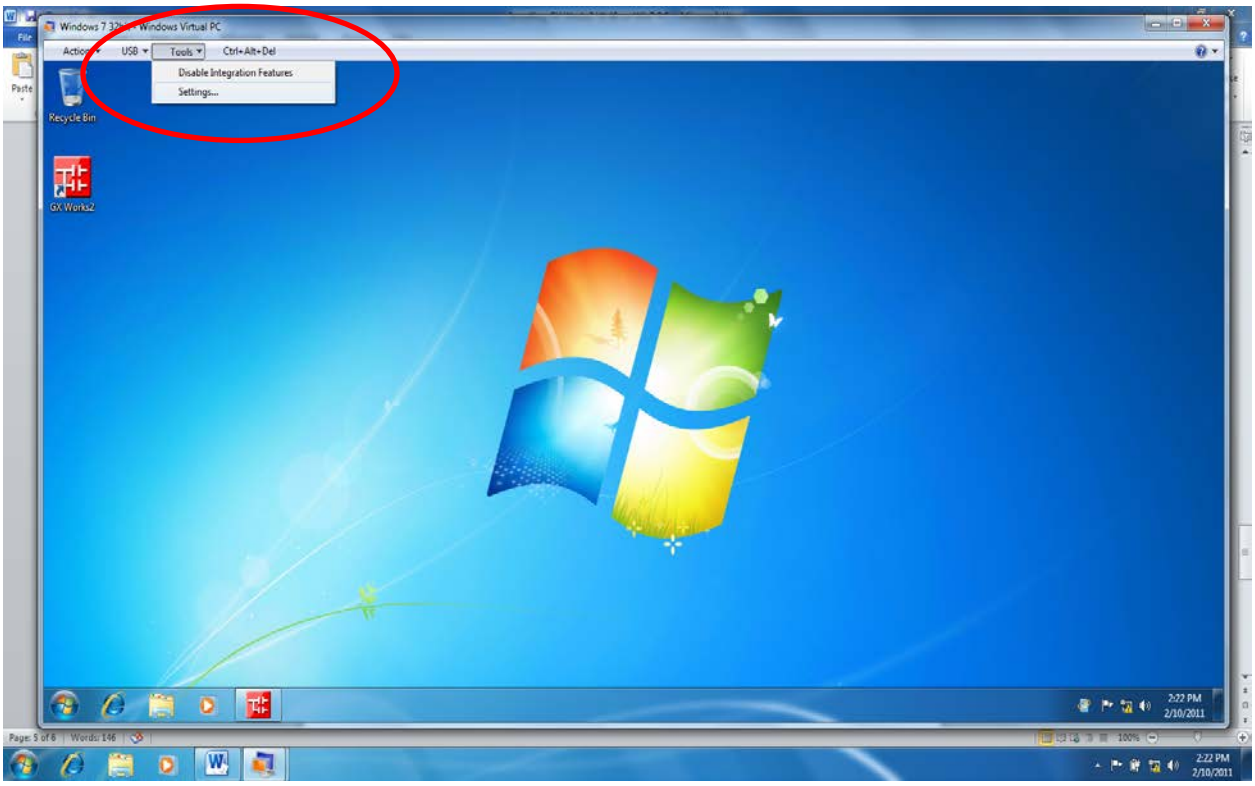
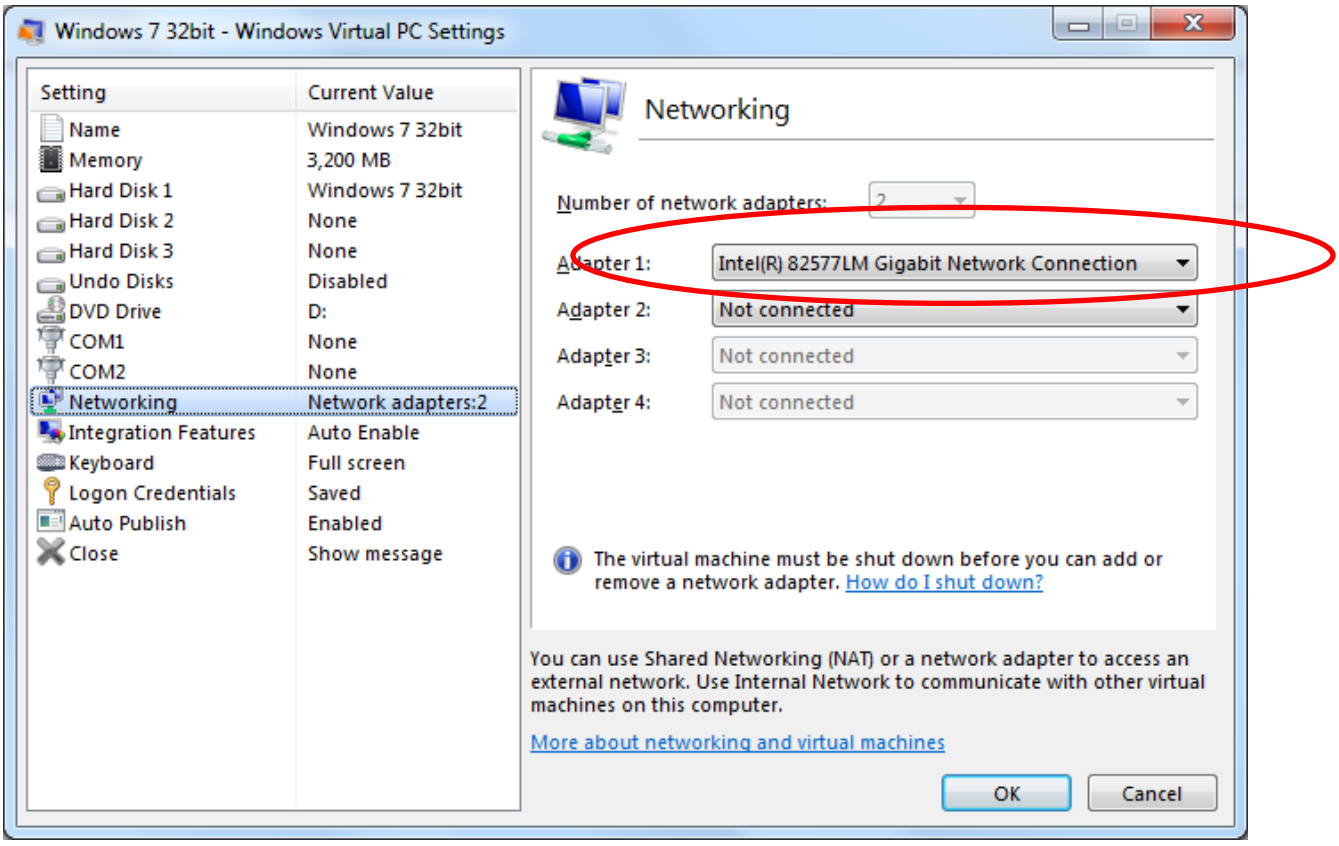
Ethernet

In order for the Win 7 32bit WINDOWS VIRTUAL PC to have access to the Ethernet Card you have to Tools →Settings Menu in the WINDOWS VIRTUAL PC Titlebar.



In the Setting Menu, Select “Networking” and make sure for “Adapter 1:” you have your physical network card selected.



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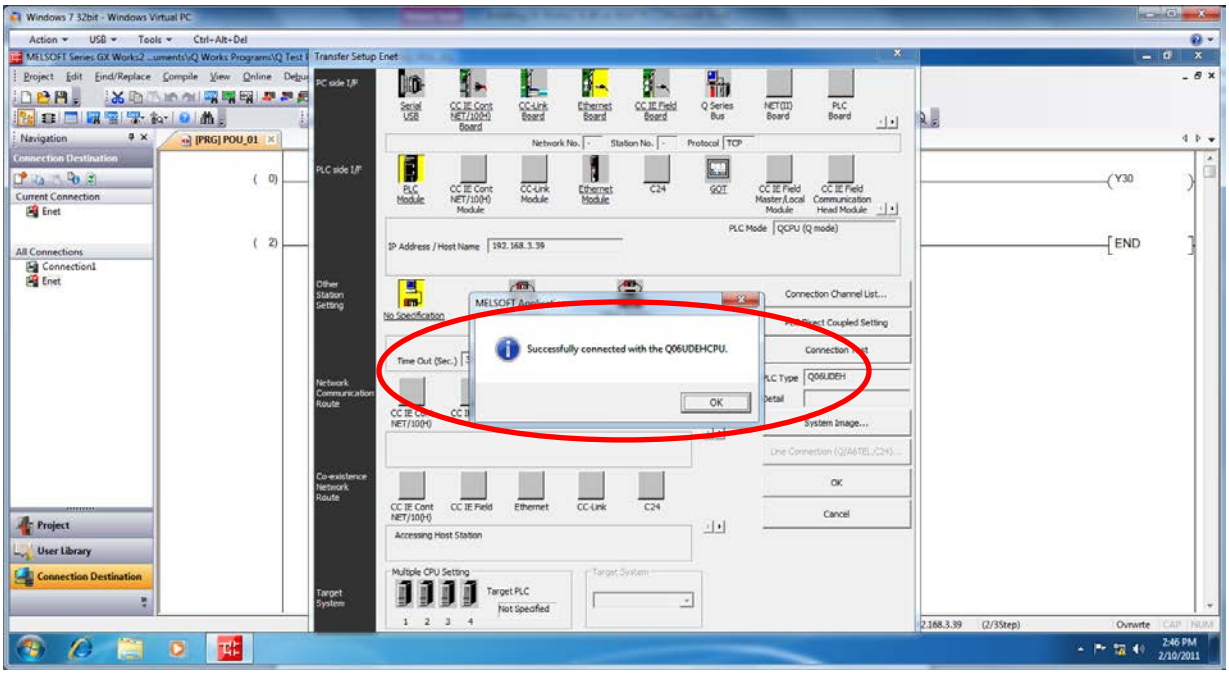
Setup your Ethernet Connection Destination as you normally would and do a Connection Test.



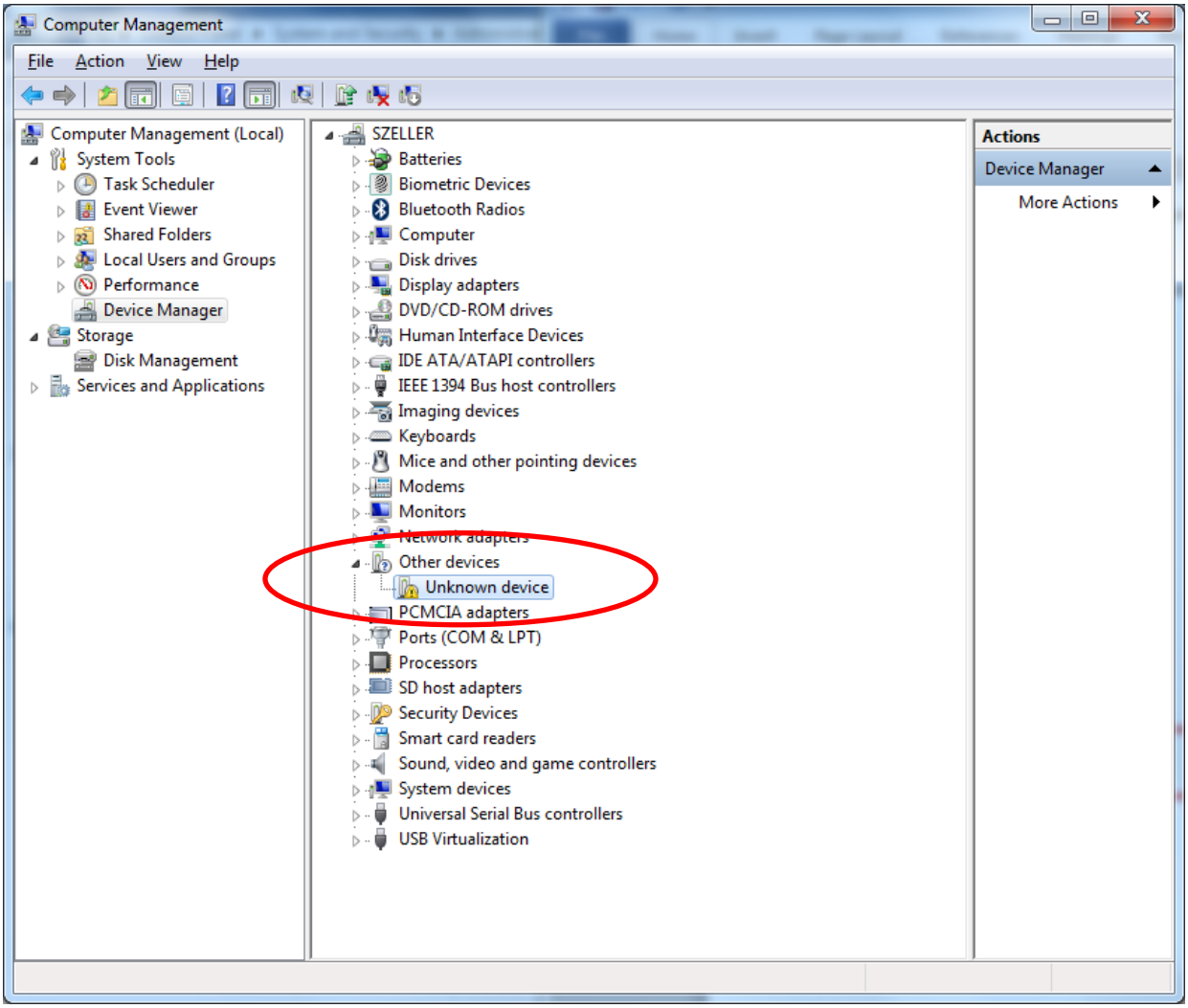
RS-232 via a Startech EC1S952 Express Card RS-232 Adapter

This card can be purchased at CDW.COM.
http://www.cdw.com/shop/products/default.aspx?edc=1830145&enkwrd=ALLPROD%3a(1830145)

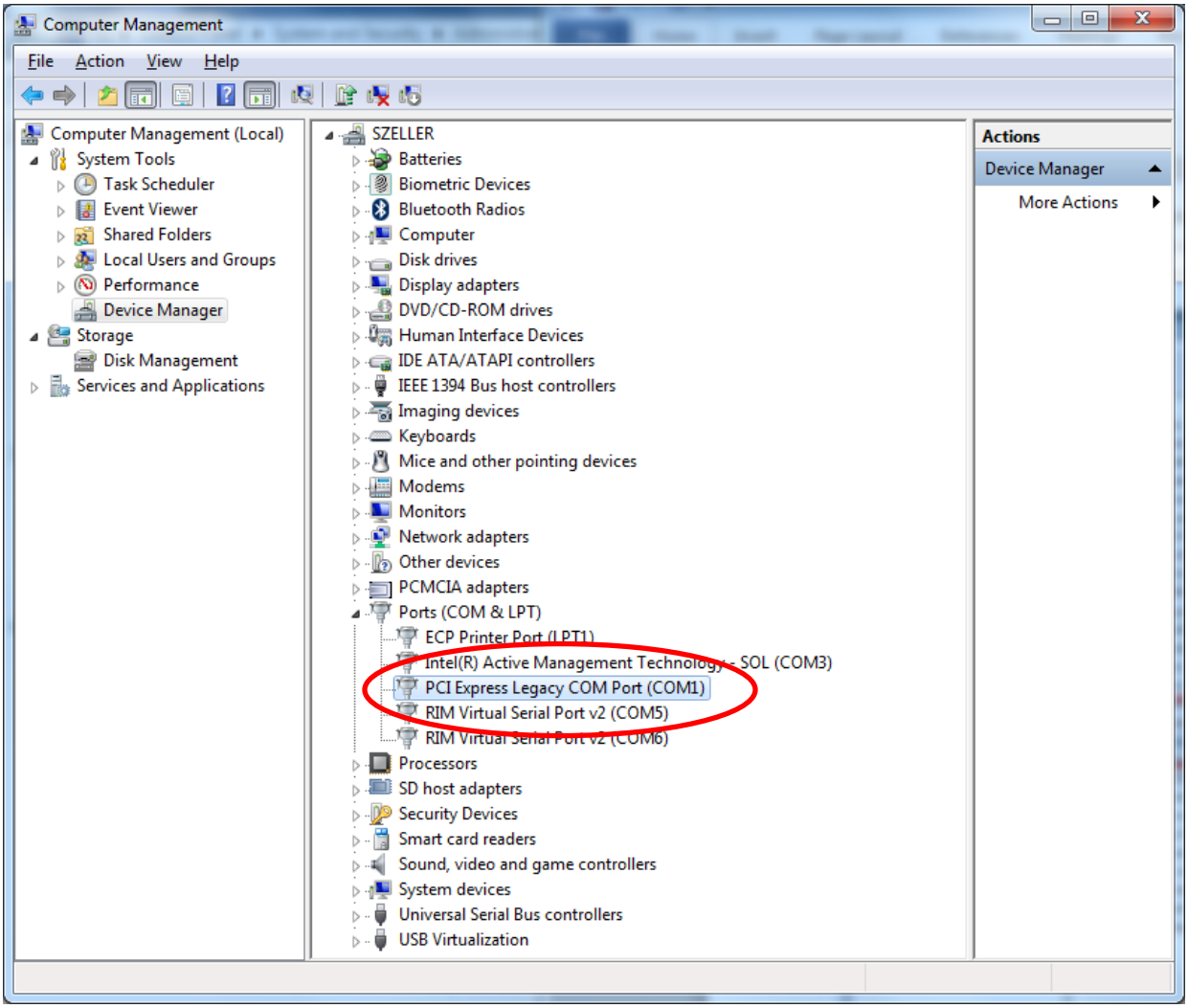
In Windows 7 64-Bit OS, goto the product webpage and download the latest drivers (EC1S952.zip), uder the Drivers tab and unzip/save to your PC.

http://us.startech.com/product/EC1S952-1-Port-Native-Express-Card-RS232-Serial-Adapter-Card-with-16950-UART

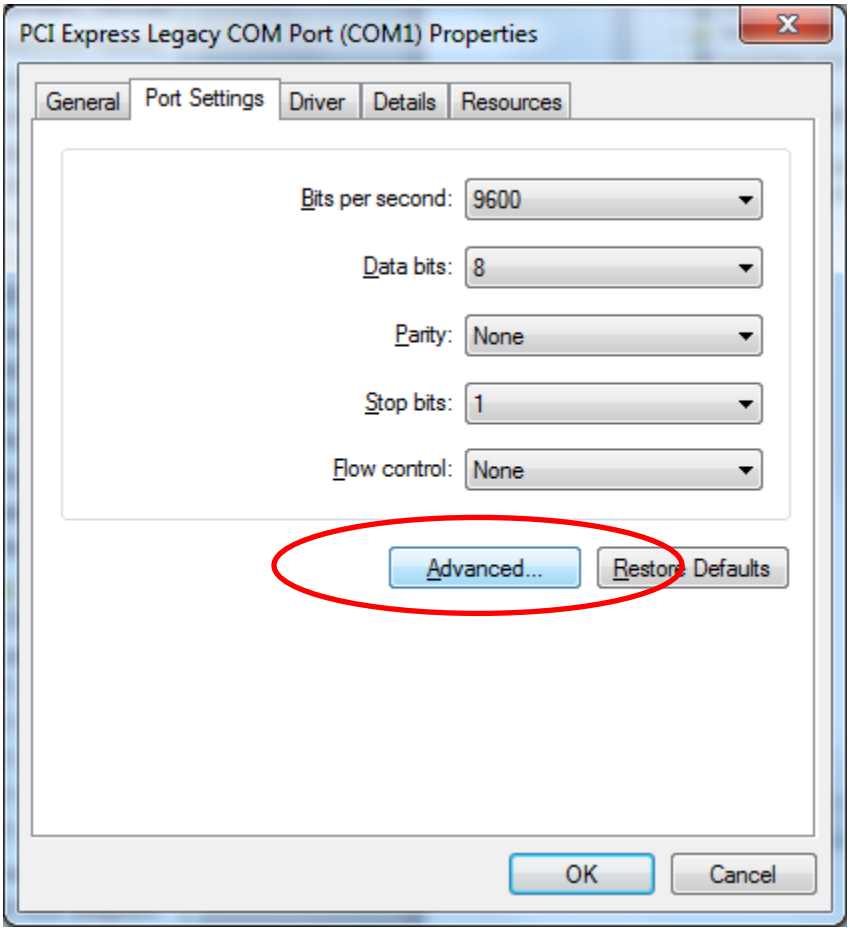
Insert the card and install the drivers manually in Win 7 64-Bit OS by following the same procedure as the USB drivers above. In the Computer Management/Device Manager screen, the device will intially come up under “Other Devices”. Right click on the “Unknown device” and select Properties. In the Properties menu, select Update Driver and find the Vista 64-Bit driver from the EC1S952.zip file you previously downloaded.


Computer Management
File Action View Help
Computer Management (Local)
System Tools
Task Scheduler
Event Viewer
Shared Folders
Local Users and Groups
Performance
Device Manager
Storage
Disk Management
Services and Applications
SZELLER
Batteries
Biometric Devices
Bluetooth Radios
Computer
Disk drives
Display adapters
DVD/CD-ROM drives
Human Interface Devices
IDE ATA/ATAPI controllers
IEEE 1394 Bus host controllers
Imaging devices
Keyboards
Mice and other pointing devices
Modems
Monitors
Other devices
Unknown device
PCMCIA adapters
Ports (COM & LPT)
Processors
SD host adapters
Security Devices
Smart card readers
Sound, video and game controllers
System devices
Universal Serial Bus controllers
USB Virtualization
Actions
Device Manager
More Actions

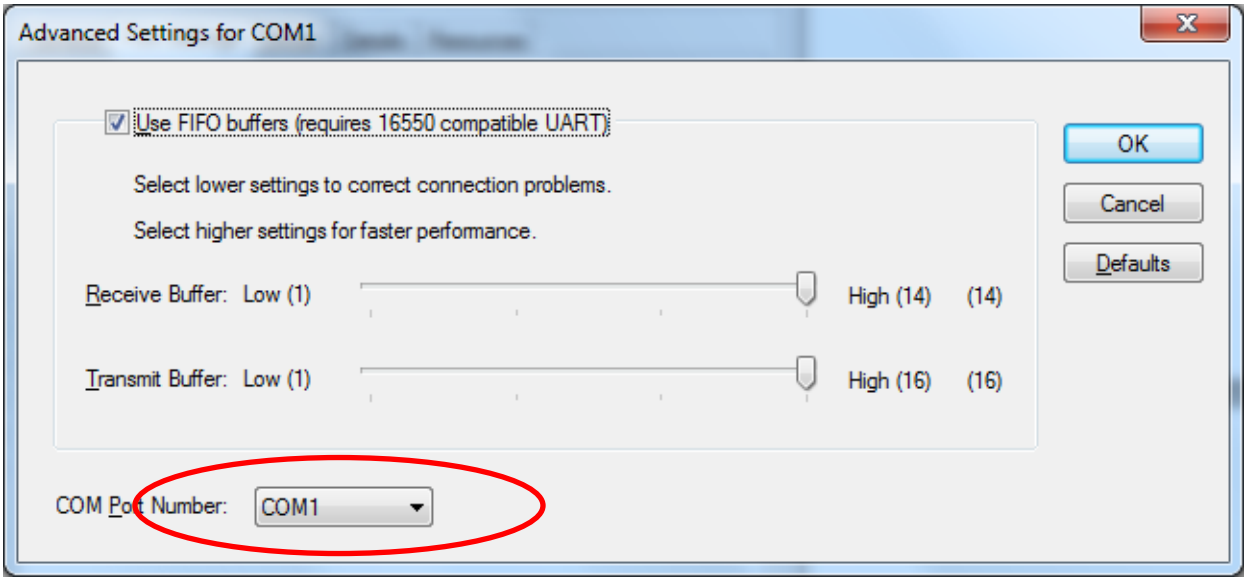
Once the driver is installed you will see the card “PCI Express Legacy COM Port (COMx)” under the Ports (COM & LPT) selection. If you wish to select another COM port other than the one originally selected, right click and select Properties.



Under the Port Settings Tab, select Advanced…

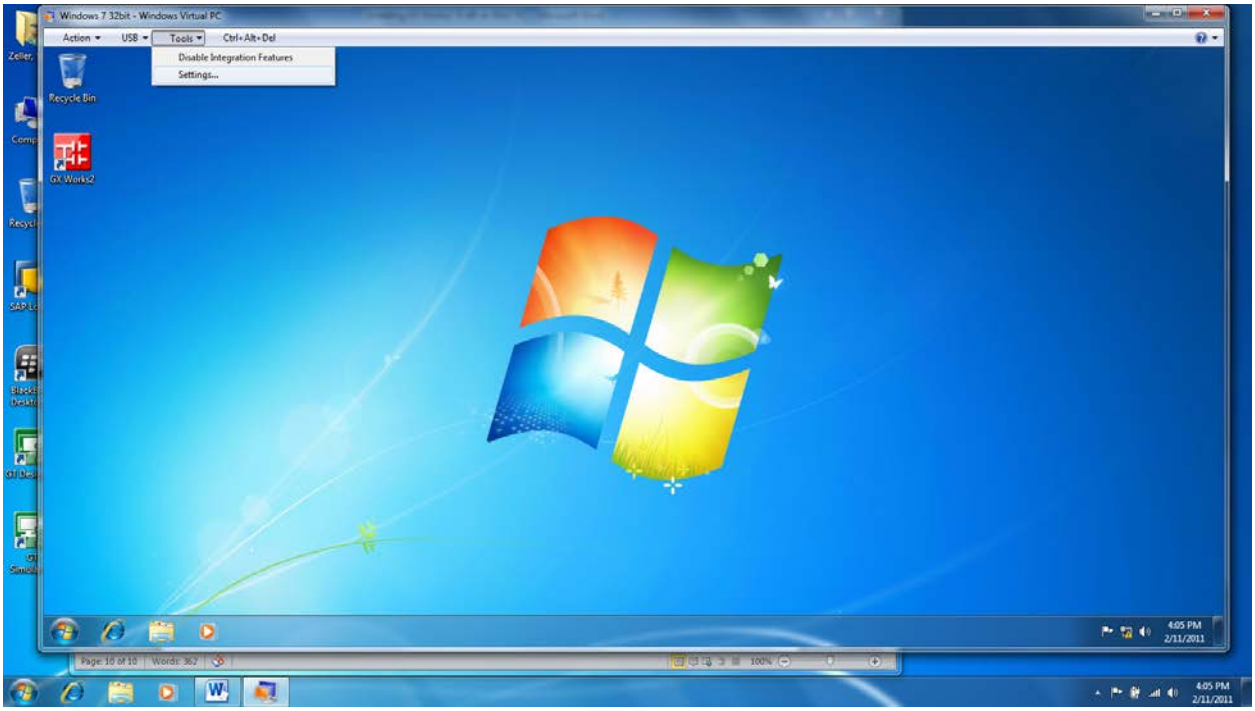


Under COM Port Number select the number you want, Use COM1 if it is open.

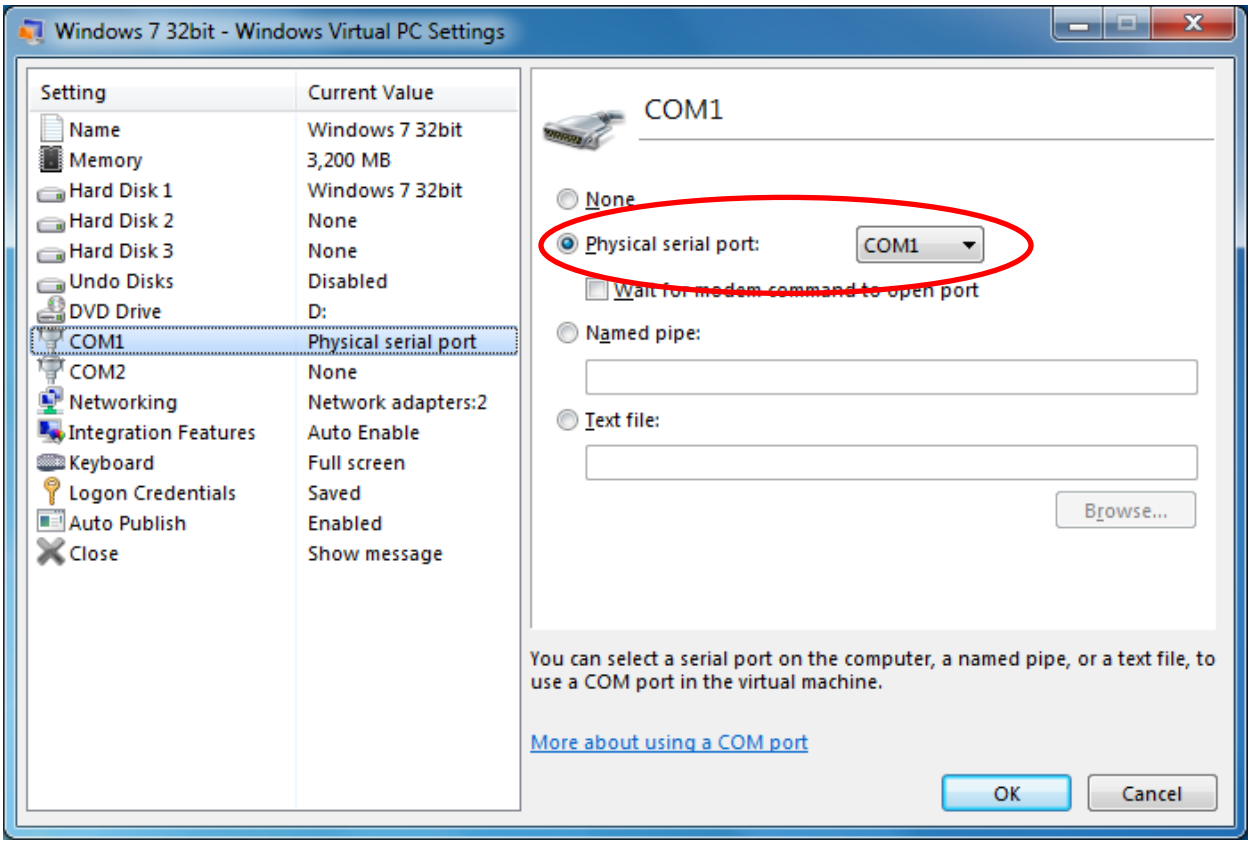

Advanced Settings for COM1
Use FIFO buffers (requires 16550 compatible UART)
Select lower settings to correct connection problems.
Select higher settings for faster performance.
Receive Buffer: Low (1) High (14) (14)
Transmit Buffer: Low (1) High (16) (16)
COM Port Number: COM1
OK
Cancel
Defaults

Select OK and Reboot your laptop.

Open Window 7 32-Bit Virtual PC and from the WINDOWS VIRTUAL PC Titlebar goto Tools → Settings..

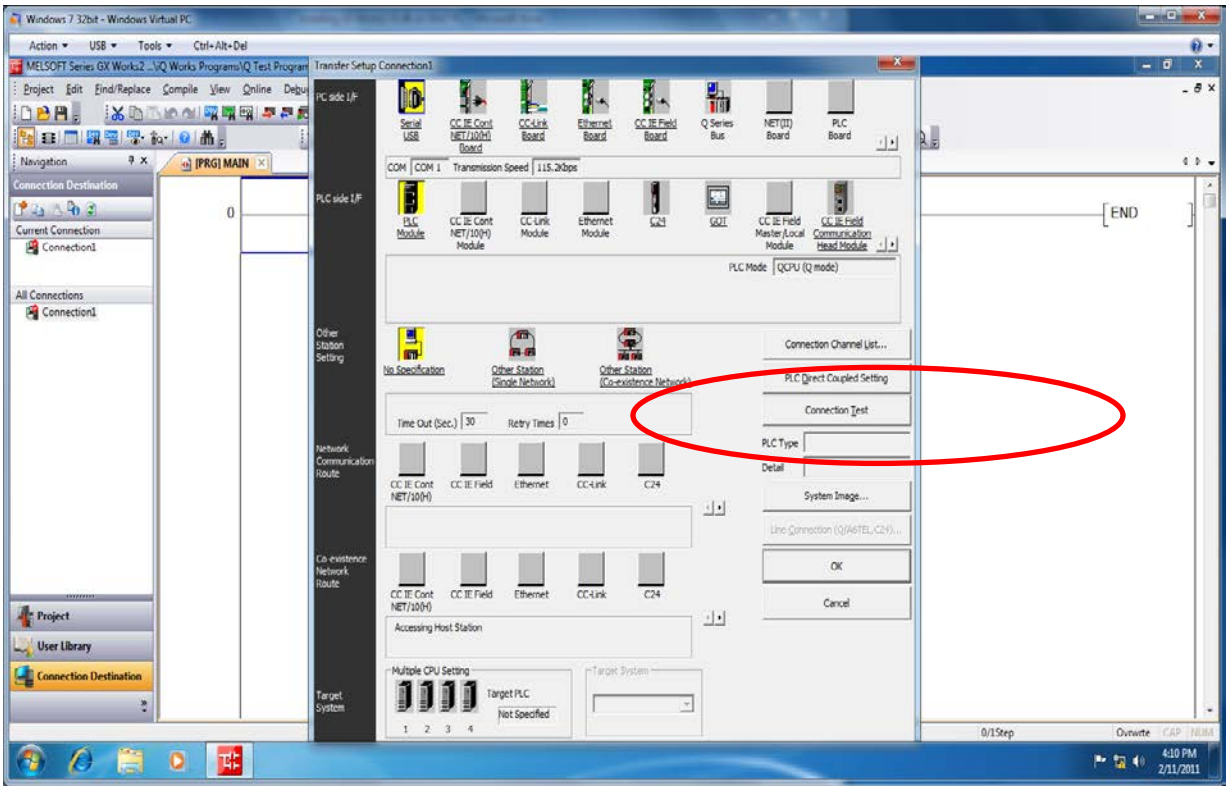


Under the Windows Virtual PC Settings select COM1 setting on the Left and assgin COM1 under Physical serial Port to COM1, or the port that was selected by the Serial Card perviously. Then Select OK.

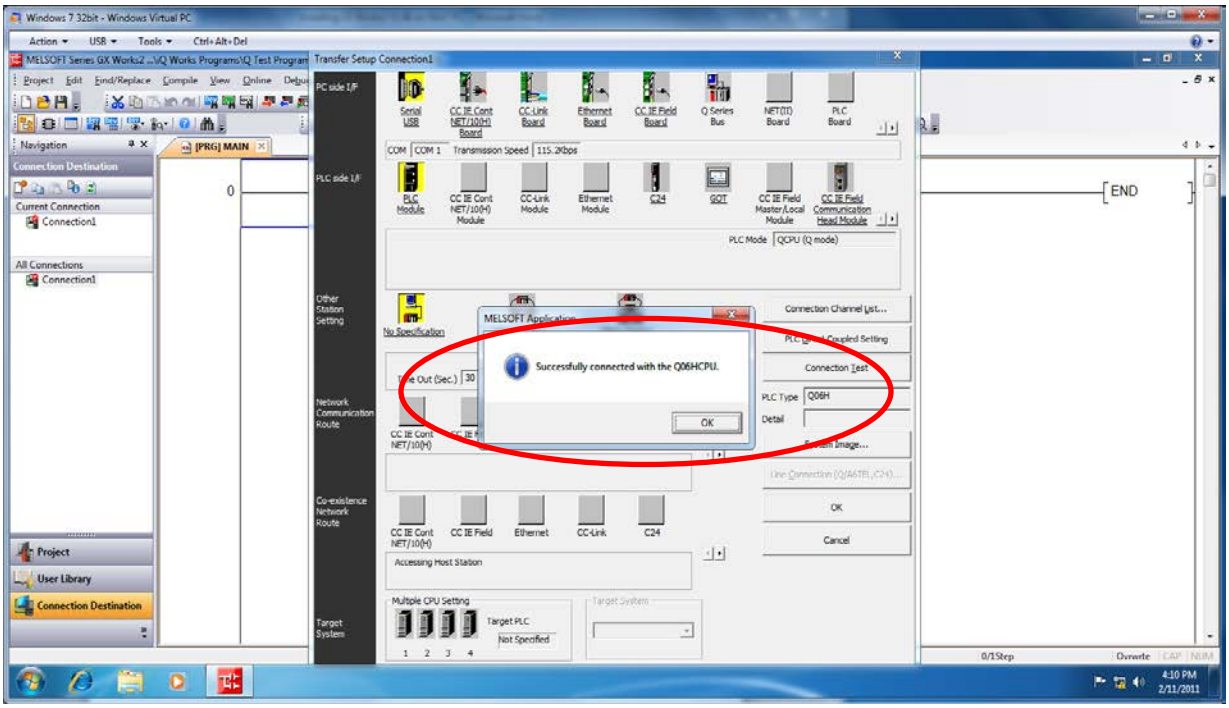


Close the Window 7 32-Bit Virtual PC and restart.

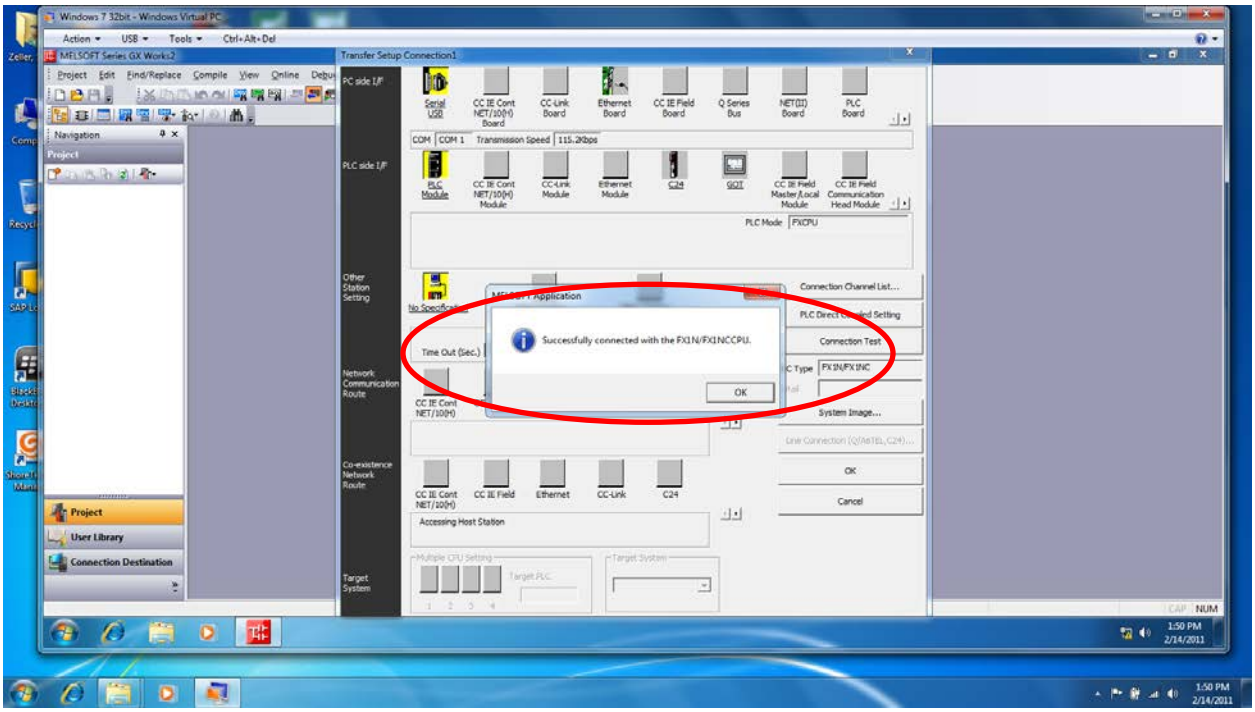
Open GX Works2 and Setup Connection for COM1 and do a Connection Test.



You should get a Connection Test Confirmation Message. This test was done with a SC-Q cable and a Q CPU using the RS232 Port.



You should get a Connection Test Confirmation Message. This test was done with a SC09 cable and a FX1N CPU using the RS232 Port.



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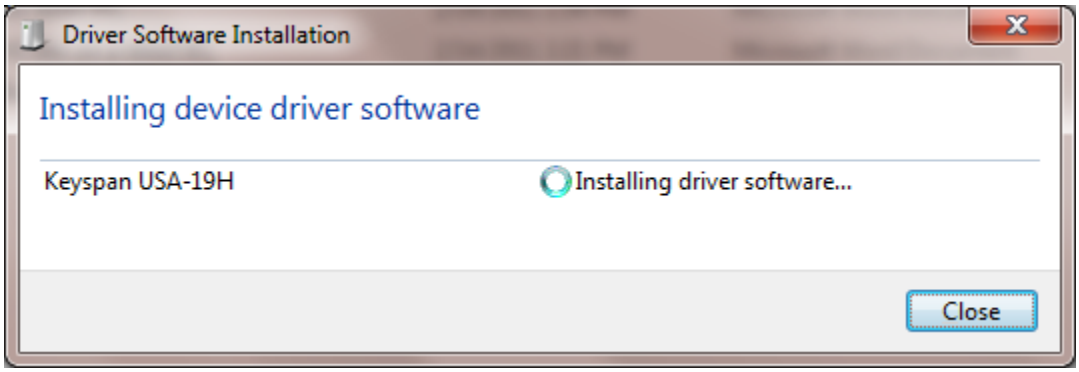
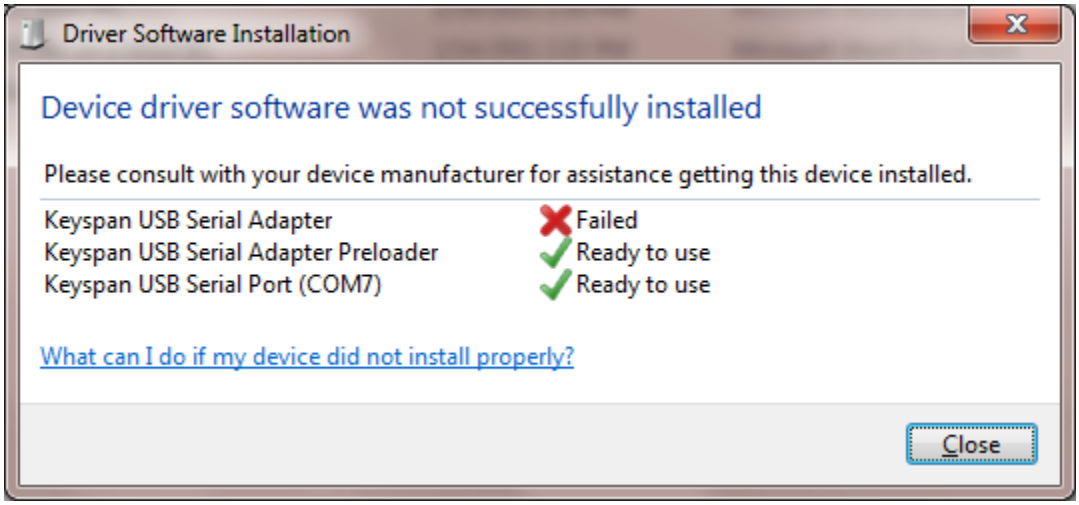
RS-232 via a Keyspan USA-19HS USB Converter

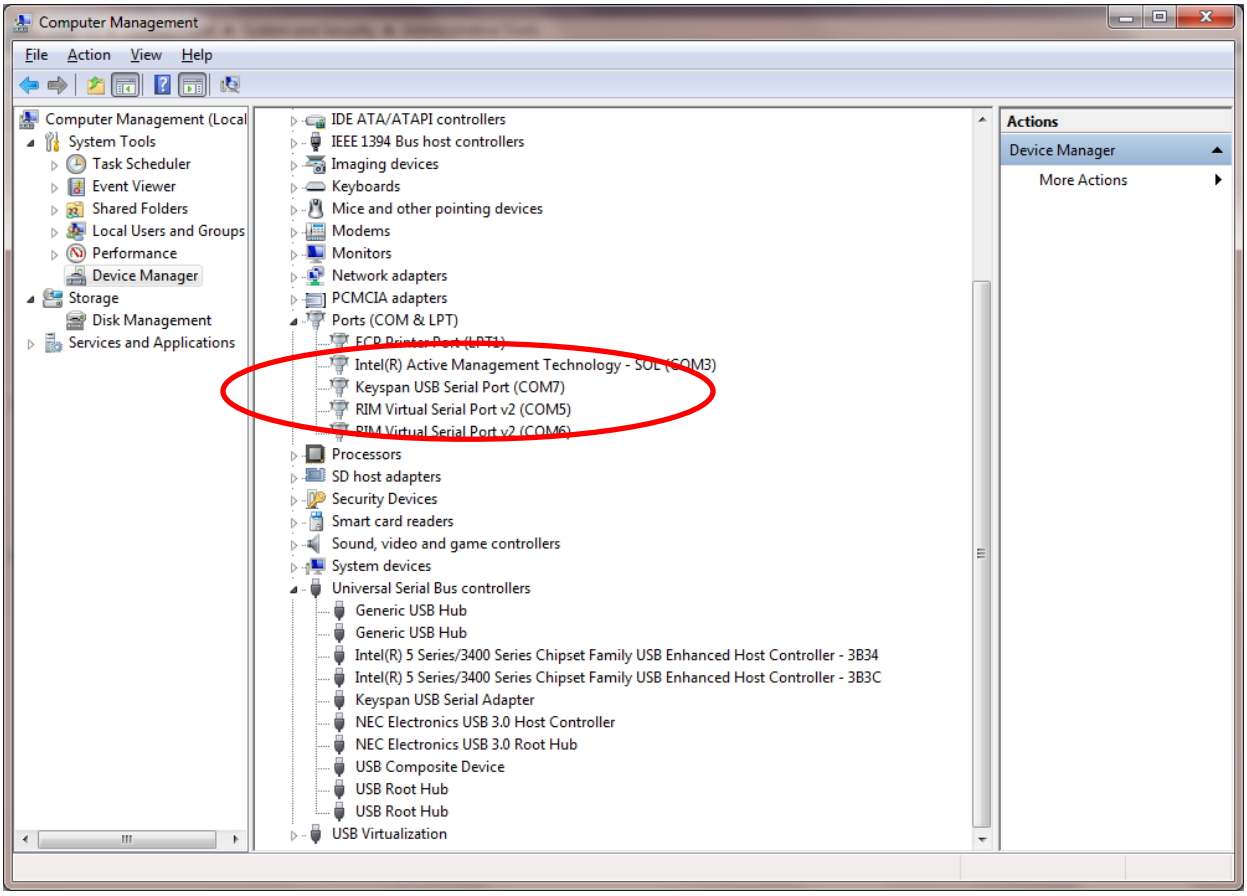
Connected Conveter to PC and in Win7 64-Bit OS. These are the install messages.




Driver Software Installation
Device driver software was not successfully installed
Please consult with your device manufacturer for assistance getting this device installed.
Keyspan USB Serial Adapter
Failed
Keyspan USB Serial Adapter Preloader
Ready to use
Keyspan USB Serial Port (COM7)
Ready to use
What can I do if my device did not install properly?
Close

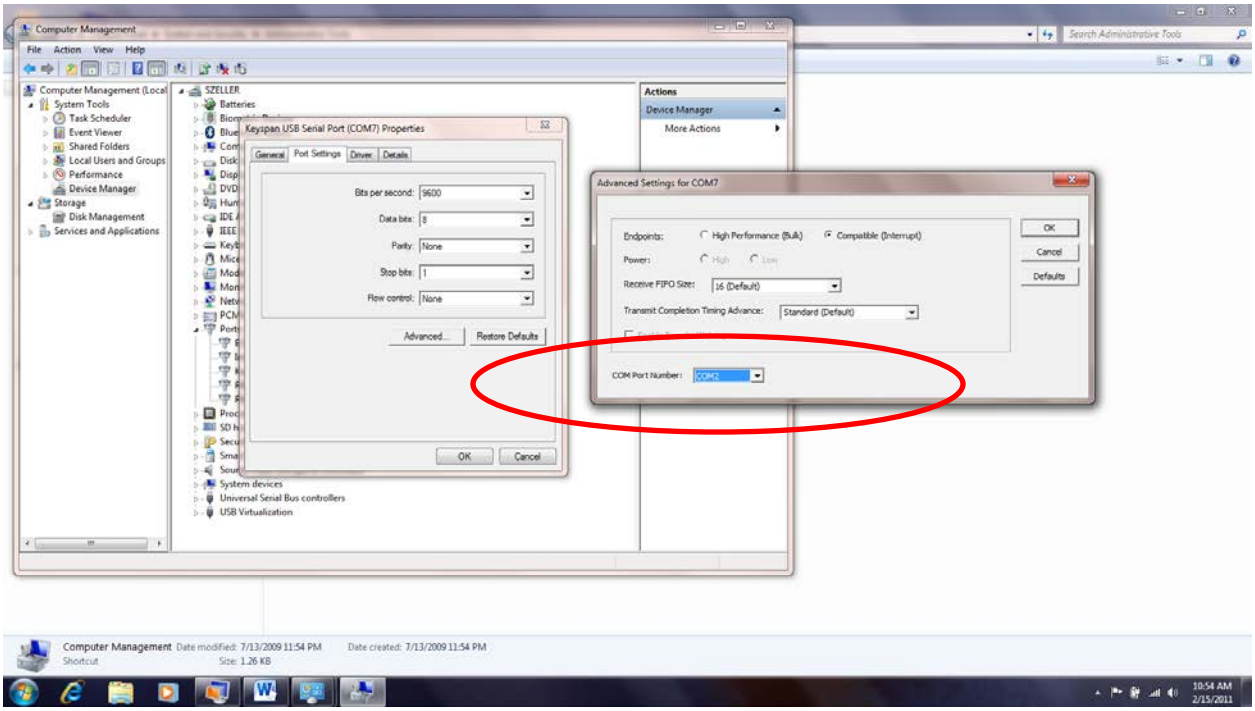
In the Win7 64-bit Device Manager the Adapter is shown under PORTS and under USB Controllers assigned to COM7. Port number may differ on your system.

The Keyspan Adatper is ALWAYS seen as a COM Port, not a USB Device.

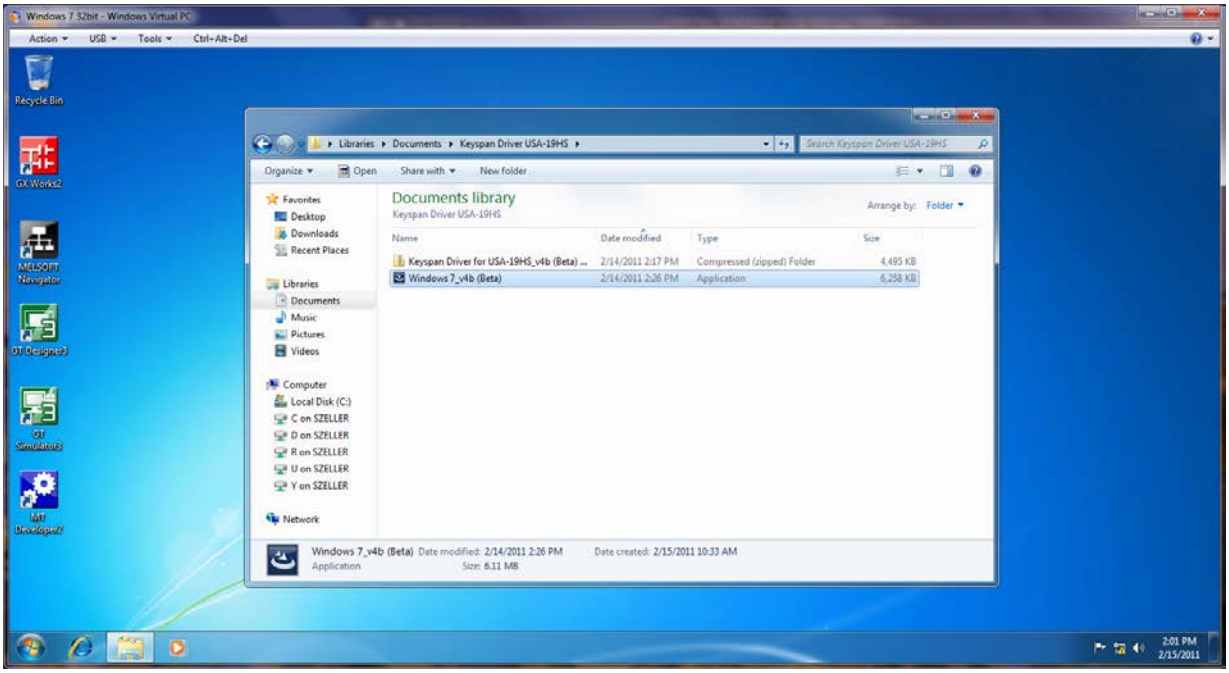


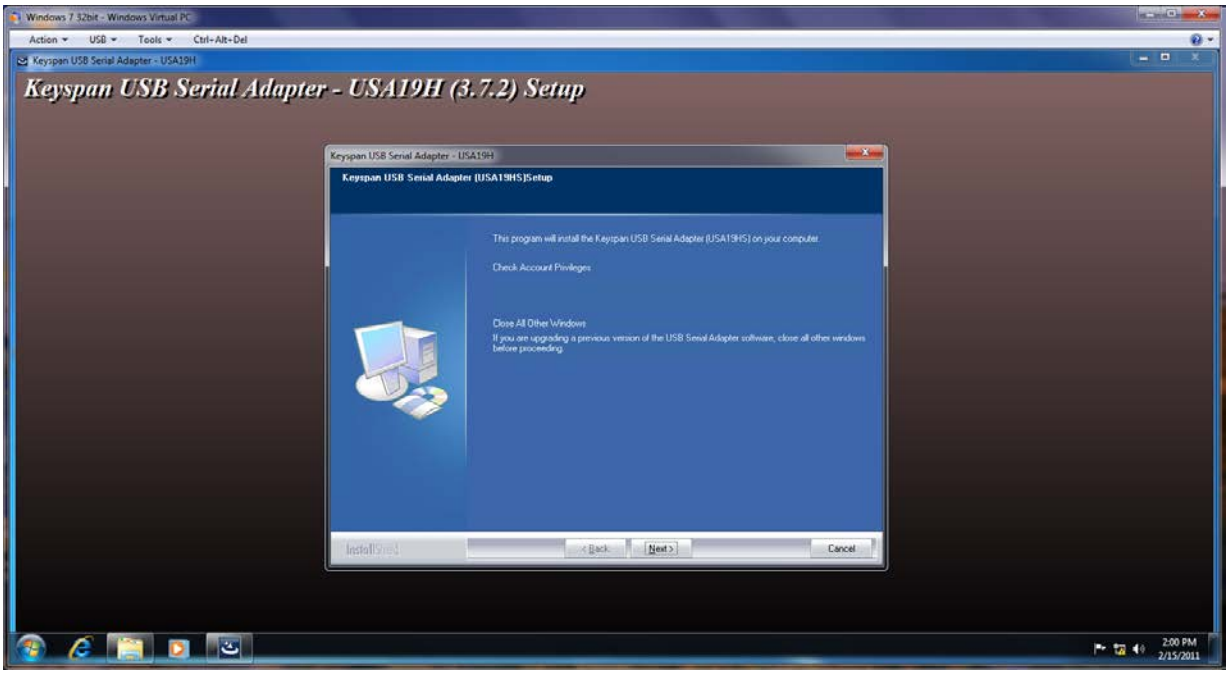
To change the Com port Double Click on the Keyspan USB Serial Port (COM7) under Ports, go to the Port Settings Tab and select “Advanced…”.

Change the COM Port Number on the bottom left of the screen to COM2.



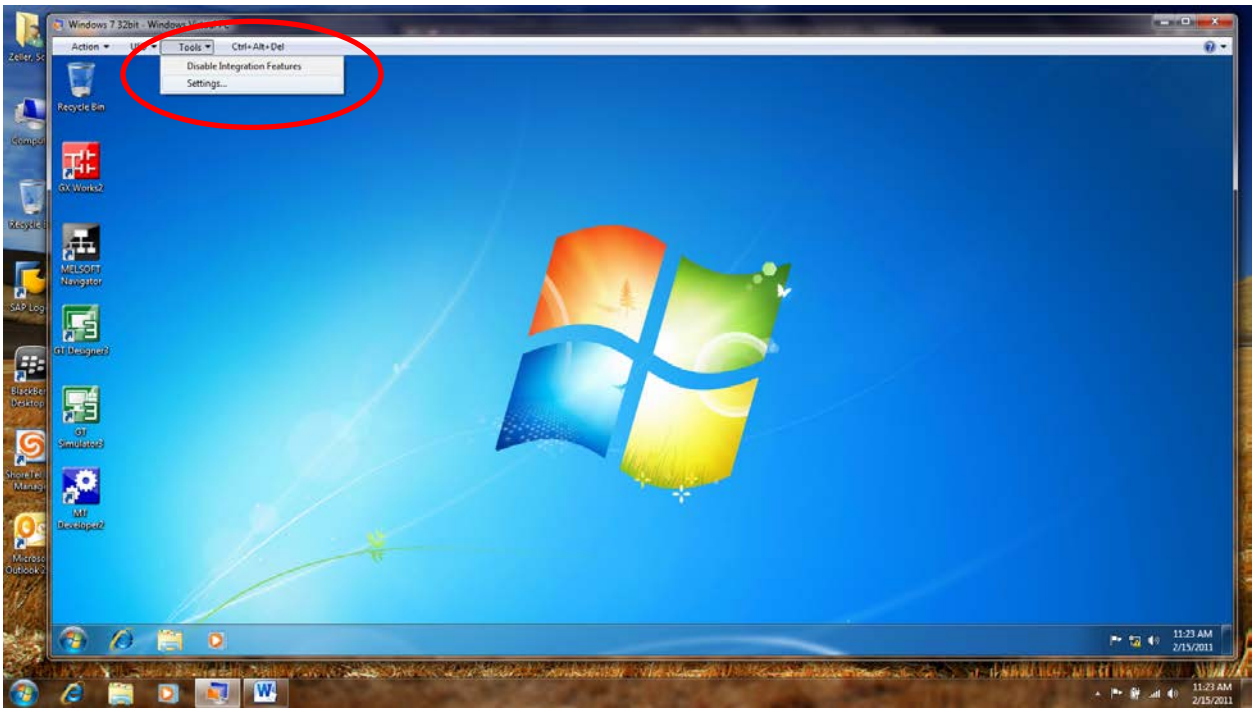
If the PC does not automatically install the drivers use the Keyspan Windows 7 driver install software. I did not have to use this, but it is available on the Keyspan website.




Windows 7 32bit - Windows Virtual PC
Action
USB
Tools
Ctrl+Alt+Del
Keyspan USB Serial Adapter - USA19H
Keyspan USB Serial Adapter - USA19H (3.7.2) Setup
Keyspan USB Serial Adapter - USA19H
Keyspan USB Serial Adapter (USA19HS)Setup
This program will install the Keyspan USB Serial Adapter (USA19HS) on your computer.
Check Account Privileges
Close All Other Windows
If you are upgrading a previous version of the USB Serial Adapter software, close all other windows before proceeding.
InstallShield
< Back
Next >
Cancel
2:00 PM
2/15/2011

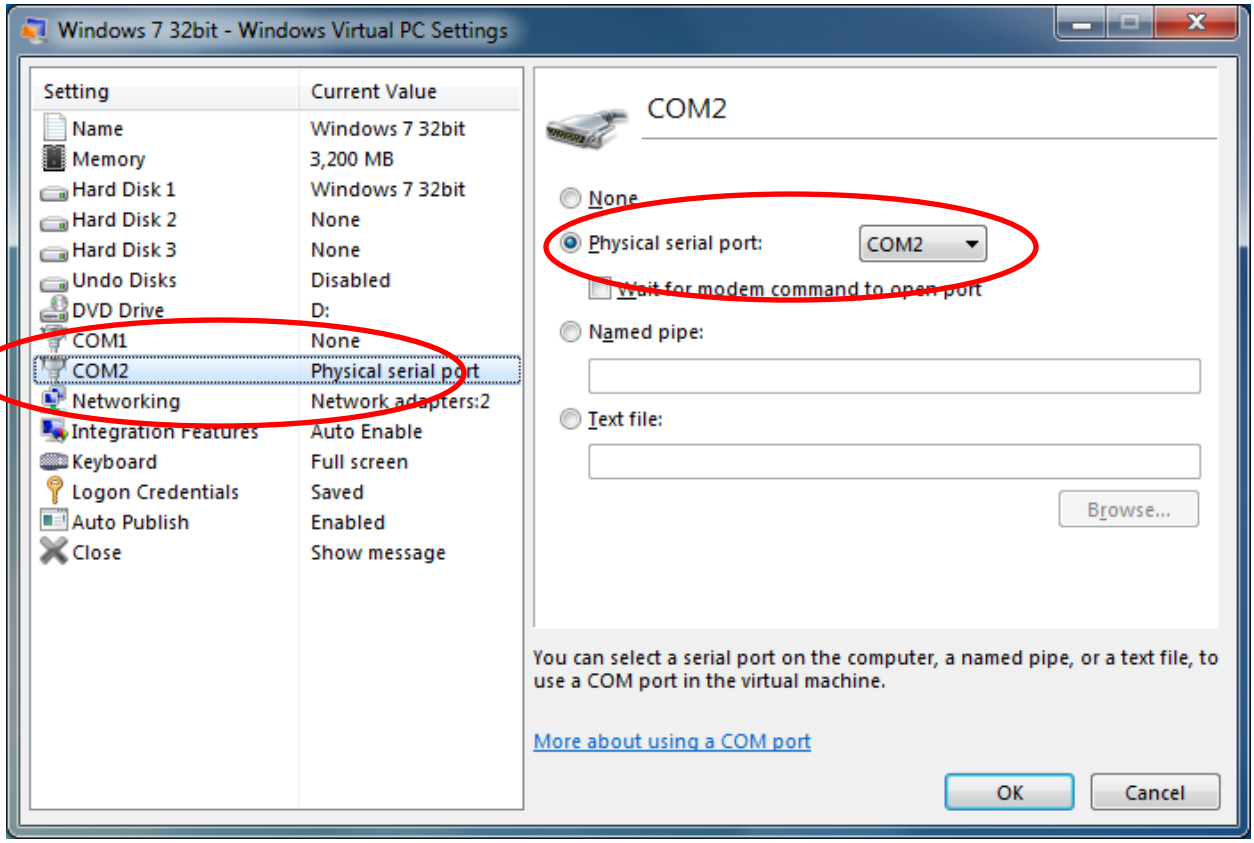
Open Window 7 32-Bit Virtual PC.

Under the Tools Menu select “Settings…”.



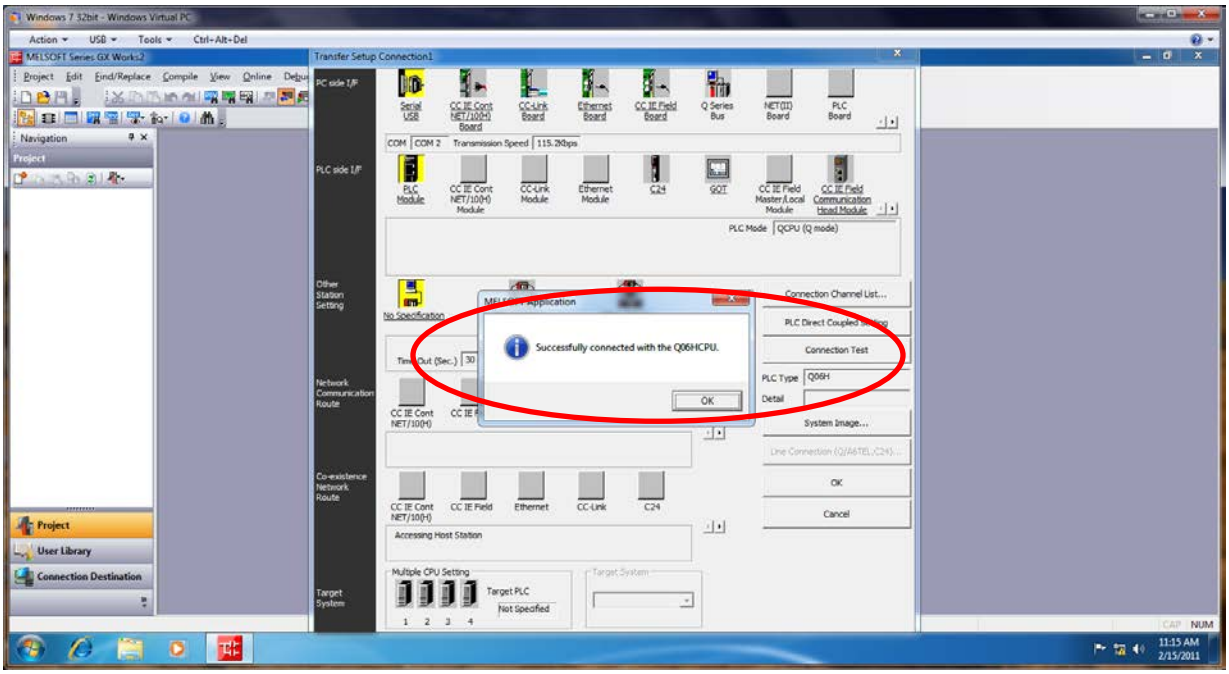
In Settings change COM2 Port on the left side to Physical serial port COM2 on the Right Side.

This is now the COM port to use in the software.



In GX Works2 setup a RS232 Connection Using COM2 and do a Connection Test.

This test was done with a SC-Q cable and a Q CPU using the RS232 Port.



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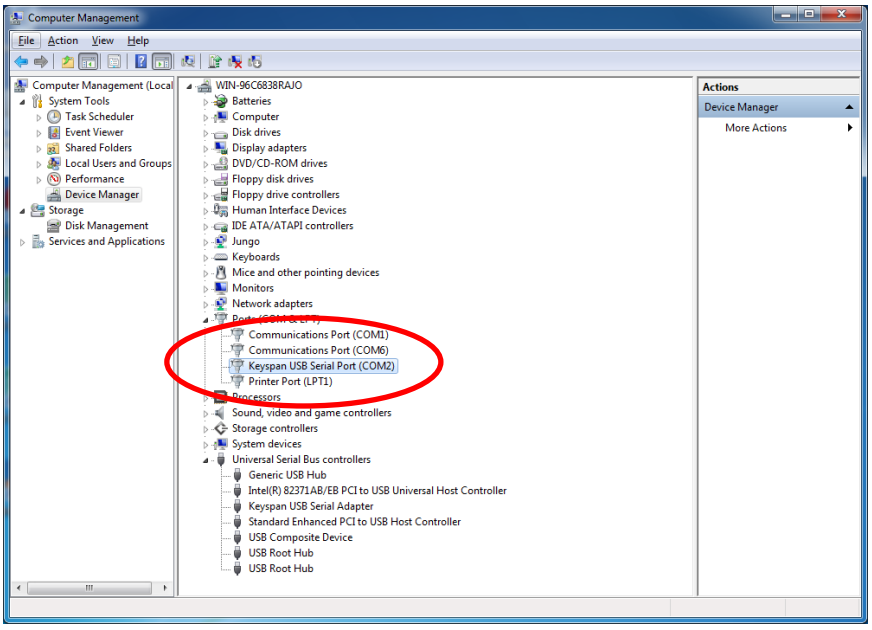
Chapter 3- Installing GX Works2 V1.48 in Win7 32 Bit VMware Workstation

Using VMWare Windows 7 32 Bit Workstation the following Connection Methods were tested.

- Direct USB
- Direct Ethernet
- Keyspan USB to RS232 Adapter (Comm Port Assignment in VMWare – Device Manager)

VMWare does not require the Manual connecting and reconnecting of USB devices. VMWare does not require the manual selection of Ethernet ports or RS232 Ports. VMWare does not require product spectific USB Drivers be loaded in the Host PC (Windows 7 64bit).

The handling of Connections and Ports are all automatically done in VMWare. The bottom right hand corner on the VMWare Workstation shows all the connected devices including hard drives, ethernet connections, printers and USB (Mitsubishi Device shown in RED or Keyspan Device shown in BLUE (default)) devices. If the connection is shown here, the connection can be made within the VMWare Workstation. If a USB driver needs to loaded manually in VMWare follow the above directions for loading the USB driver manually in the Virtual PC. The procedure is exactly the same.



Here is a list of all Mitsubishi software and Connection Methods that have been tested.

Windows 7 32 Bit VMWare Software Image and Test to MEAU Devices

The following Mitsubishi Software Titles and Versions have been fully testing in VMWare Version 7.1.4 build-385536 using Windows 7 (Service Pack 1) 32 Bit OS

May 4, 2011
Revision Date

	Software	Version	Connection Method	DEVICE	Status	Driver Required	Notes
1	Alpha-Win	2.6	Keyspan USA-19HS and Alpha RS-232 Programming Cable	AL2	Achieved	Drivers installed with USA-19HS Connected to PC	N/A
2	E-Designer	7.52	Keyspan USA-19HS and CAB30 RS-232 Programming Cable	E1070	Achieved	Drivers installed with USA-19HS Connected to PC	N/A
2a	E-Designer	7.52	Ethernet	E1070	Achieved	N/A	N/A
3	FR-Configurator	4.4	USB	E700	Achieved	Drivers installed with SW install	N/A
3a	FR-Configurator	4.4	Keyspan USA-19HS and SC-FRPC Green RS-232 Cable	F700 Version UP	Achieved	Drivers installed with USA-19HS Connected to PC	N/A
4	FX-DU-WIN	2.8	Keyspan USA-19HS and FX-232CAB-1 RS-232 Programming Cable	F940	Achieved	Drivers installed with USA-19HS Connected to PC	N/A
5	FX Configurator FP	1.50	PC USB out to FX-USB-AW	FX3U-20SSC-H	Achieved	FX-USB-AW/FX3U-USB-BD	Direct driver installer to folder that holds FX-USB-AW/FX3U-USB-BD for USB and RS-232 Function

5a	FX Configurator FP	1.50	Keyspan USA-19HS and SC09 RS-232 Programming Cable	FX3U-20SSC-H	Achieved	Drivers installed with USA-19HS Connected to PC	N/A
5b	FX Configurator FP	1.50	PC USB out to GOT1000 USB Pass-Thru	FX3U-20SSC-H	Achieved	Drivers installed with SW install	N/A
6	FX Configurator EN	1.30	PC USB out to FX-USB-AW or FX3U-USB-BD	FX3U-ENET	Achieved	FX-USB-AW/FX3U-USB-BD	Direct driver installer to folder that holds FX-USB-AW/FX3U-USB-BD for USB and RS-232 Function
6a	FX Configurator EN	1.30	Keyspan USA-19HS and SC09 RS-232 Programming Cable	FX3U-ENET	Achieved	Drivers installed with USA-19HS Connected to PC	N/A
6b	FX Configurator EN	1.30	PC USB out to GOT1000 USB Pass-Thru	FX3U-ENET	Achieved	Drivers installed with SW install	N/A
6c	FX Configurator EN	1.30	Ethernet	FX3U-ENET	Achieved	N/A	IP Address Must Be Set First Via RS-232 or USB
7	GT Designer 2/GT-Works2	2.103H	USB	GT11, GT15, GT16	Achieved	Drivers installed with SW install	N/A
7a	GT Designer 2/GT-Works2	2.103H	USB to GOT RS-232 Converter - GT10-RSTUSB-5S	GT1020	Achieved	GT10-RSTUSB-5S for USB Device and COM Port Device	For use with GT1020, May have to direct driver installer to folder that holds GT10-RSTUSB-5S
7b	GT Designer 2/GT-Works2	2.103H	Keyspan USA-19HS and SC-Q RS-232 Programming	GT1020	Achieved	Drivers installed with USA-19HS	N/A

			Cable			Connected to PC	
7c	GT Designer 2/GT-Works2	2.103H	Ethernet	GT15, GT16	Achieved	GT15 w/GT15J71E71-100 Module Installed	GT15 w/GT15-J71E71-100 Module Installed
8	GT Designer 3/GT-Works3	1.28E	USB	GT11, GT15, GT16	Achieved	Drivers installed with SW install	N/A
8a	GT Designer 3/GT-Works3	1.28E	USB to GOT RS-232 Converter - GT10-RSTUSB-5S	GT1020	Achieved	GT10-RSTUSB-5S for USB Device and COM Port Device	For use with GT1020, May have to direct driver installer to folder that holds GT10-RSTUSB-5S
8b	GT Designer 3/GT-Works3	1.28E	Keyspan USA-19HS and SC-Q RS-232 Programming Cable	GT1020	Achieved	Drivers installed with USA-19HS Connected to PC	N/A
8c	GT Designer 3/GT-Works3	1.28E	Ethernet	GT15, GT16	Achieved	N/A	GT15 w/GT15-J71E71-100 Module Installed
9	GT Simulator 3/GT-Works3	1.28E	N/A	N/A	N/A	N/A	N/A
10	GT Manuals 3/GT-Works3	1.28E	N/A	N/A	N/A	N/A	N/A
11	GT SoftGOT1000/GT-Works3	3.28E	Ethernet	Q06UDEH	Achieved	N/A	N/A
12	GX-Configurator-DP	7.04E	Ethernet	Q06UDEH	Achieved	N/A	All QPCU Communication Methods Work
13	GX-Configurat	1.07H	Keyspan USA-19HS and SC-Q	ST I/O Base	Achieved	Drivers installed	N/A

	or-ST		RS-232 Programming Cable			with USA-19HS Connected to PC	
14	GX-Developer	8.95Z	USB	Q06UDEH	Achieved	C:/Program Files/MELSOFT/Easysocket/USBDrivers	Direct driver install to file folder location
14a	GX-Developer	8.95Z	PC USB out to FX-USB-AW or FX3U-USB-BD	FX3U	Achieved	FX-USB-AW/FX3U-USB-BD	Direct driver installer to folder that holds FX-USB-AW/FX3U-USB-BD for USB and RS-232 Function
14b	GX-Developer	8.95Z	Keyspan USA-19HS and SC09 RS-232 Programming Cable	FX3U	Achieved	Drivers installed with USA-19HS Connected to PC	N/A
14c	GX-Developer	8.95Z	PC USB out to GOT1000 USB Pass-Thru	FX3U	Achieved	Drivers installed with SW install	N/A
14d	GX-Developer	8.95Z	Ethernet	Q06UDEH	Achieved	N/A	iQ CPU Front Ethernet Port
14e	GX-Developer	8.95Z	Ethernet	FX3U	Achieved	N/A	FX3U-ENET
15	GX Log Viewer	1.07H	N/A	N/A	N/A	N/A	N/A
16	GX-Simulator	7.24A	N/A	N/A	N/A	N/A	N/A
17	GX Works2	1.55H	USB	Q06UDEH	Achieved	C:/Program Files/MELSOFT/Easysocket/USBDrivers	Direct driver install to file folder location
17a	GX Works2	1.55H	PC USB out to FX-USB-AW or FX3U-USB-BD	FX3U	Achieved	FX-USB-AW/FX3U-USB-BD	Direct driver installer to folder that holds FX-USB-AW/FX3U-USB-

							BD for USB and RS-232 Function
17 b	GX Works2	1.55H	Keyspan USA-19HS and SC09 RS-232 Programming Cable	FX3U	Achie ved	Drivers installed with USA-19HS Connected to PC	N/A
17 c	GX Works2	1.55H	PC USB out to GOT1000 USB Pass-Thru	FX3U	Achie ved	Drivers installed with SW install	N/A
17 d	GX Works2	1.55H	Ethernet	Q06UDEH	Achie ved	N/A	iQ CPU Front Ethernet Port
17 e	GX Works2	1.55H	Ethernet	FX3U	Achie ved	N/A	FX3U-ENET
18	GX Simulator 2	1.55H	N/A	N/A	N/A	N/A	N/A
19	GX-CONFIG2-MB	1.01A	USB	Q06UDEH	Achie ved	C:/Program Files/MELSOFT/Easysocket/USBDrivers	All QPCU Communication Methods Work
20	GX-CONFIG2-DN	1.01A	USB	Q06UDEH	Achie ved	C:/Program Files/MELSOFT/Easysocket/USBDrivers	All QPCU Communication Methods Work
21	GX-CONFIG-QP	2.32J	USB	Q06UDEH	Achie ved	C:/Program Files/MELSOFT/Easysocket/USBDrivers	All QPCU Communication Methods Work
22	iQ-Works Navigator	1.21X	N/A	N/A	N/A	N/A	Projects should be kept on Local VMWare C: Drive Do NOT use Network or Host Drive
23	LCPU Logging Config Tool	1.11M	USB	L26CPU-BT	Achie ved	C:/Program Files/MELSOFT/Easysocket/USBDri	Direct driver install to file folder location

						vers	
24	MES Interface IT	1.07H	Ethernet	MESIT	Achieved	N/A	N/A
25	MR Configurator 2	1.01B	USB	MR-J3-B	Achieved	Drivers installed with SW install	N/A
26	MR Configurator	C4	USB	MR-J3-B	Achieved	Drivers installed with SW install	N/A
27	MT Developer 2/MT-Works2	1.18U	USB	Q172D via Q06UDEH	Achieved	C:/Program Files/MELSOFT/Easysocket/USBDrivers	Direct driver install to file folder location
27a	MT Developer 2/MT-Works2	1.18U	Ethernet	Q172D via Q06UDEH	Achieved	N/A	N/A
28	MX-Component	3.14Q	USB	Q06UDEH	Achieved	C:/Program Files/MELSOFT/Easysocket/USBDrivers	All QPCU Communication Methods Work
29	MX-OPC	6.01	USB	Q06UDEH	Achieved	C:/Program Files/MELSOFT/Easysocket/USBDrivers	All QPCU Communication Methods Work
30	QD81DL96 Log Config Tool	1.03D	Ethernet	QD81DL96	Achieved	N/A	N/A
31	Remote Access Viewer	1.5.3	Ethernet	E1070	Achieved	N/A	Under E-Designer Menu
32	RT Toolbox2	1.7	Ethernet	SD Controller	Achieved	N/A	N/A
33	Servo Setup 161E	F1	Keyspan USA-19HS and MR-CPCATCBL3M RS-232 Programming	MR-J2S-B	Achieved	Drivers installed with USA-19HS	N/A

			Cable			Connected to PC	
34	WS Developer	1.2.1.0	Keyspan USA-19HS and WS0-C20R2 RS-232 Programming Cable	WS0-CPU	Achieved	Drivers installed with USA-19HS Connected to PC	N/A

1 Keyspan USA-19HS can be purchased from www.cdw.com
http://www.cdw.com/shop/products/Keyspan-Hi-Speed-USB-Serial-Adapter-PC-MAC-supports-Cisco-Break-Sequence/555201.aspx

2 This information does NOT guarantee compatibility or connectivity. Use as a general guideline for software and hardware use.

3 Mitsubishi USB Drivers DO NOT need to loaded on the HOST OS (Win 7 64 bit) first.